



Technical Data Sheet



Project: Location: **United Arab Emirates**

Company: **Trielectric International FZE** | Contact: **Mr.Saravanan(+971564345964)** | Contact: **Mr.Thamizh(+971502353763)** | Item name: **1.0002**

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No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	3GBA 282 220-ADCIN		
3	Type/Frame	M2BAX 280SMB 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	90	kW	
6	Service factor	1		
7	Type of duty	S1 100%		
8	Rated voltage U _N	400	VD	± 5 %
9	Rated frequency f _N	50	Hz	± 2 %
10	Rated speed n _N	1483	r/min	
11	Rated current I _N	160	A	
12				
13	Starting current I _s /I _N	7		
14	Nominal torque T _N	580	Nm	
15	Locked rotor torque T _s /T _N	2.4		
16	Maximum torque T _{max} /T _N	2.9		
17				
18				
	Load characteristics	Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	160	94.2 / IE2
20		75	125	94.2
21		50	92.9	93.2
22				0.86
23	Thermal withstand time hot	27	s	
24	Thermal withstand time cold	48	s	
25	Insulation class / Temperature class	F / B		
26	Ambient temperature	50	°C	
27	Altitude	1000	m.a.s.l.	
28	Degree of protection	IP55		
29	Cooling system	IC411		
30	Bearing DE/NDE	6316/C3 - 6316/C3		
31	Sound pressure level (LP dB(A) 1m)	85	dB(A)	at no-load
32	Moment of inertia J = ¼ GD2	1.5	kg-m2	
33	Position of terminal box	Top		
34	Direction of rotation	Bi-directional		
35	Weight of rotor	152	kg	
36	Total weight of motor	616	kg	
37	Paint shade	Munsell Blue		
38	Cable size			
39	Vibration	As Per IS 12075		
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46	Ex-motors			
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Option Variant Codes / Definition

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Remarks:
 Applicable standards: IS 12615:2018, IEC 60034-30-1:2014

All performance values are subject to IS/IEC tolerances